

ABSTRACT

A vehicle including a plurality of wheels, an internal combustion engine having a drive shaft interconnected to drive at least one of the wheels, a stator having a core disposed next to the engine and a plurality of wires disposed on the core in a three phase winding arrangement, and a flywheel-rotor apparatus surrounding at least a portion of the stator and having an aperture that receives the drive shaft. The flywheel-rotor apparatus is operable to magnetically interact with the stator to produce a three-phase alternating current in the wires, and provides an inertia to the internal combustion engine. The vehicle further includes power circuitry electrically connected to the wires. The power circuitry receives the three-phase alternating current and controllably generates a single-phase alternating current.

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